

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247483

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247483  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90830 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8222.0 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

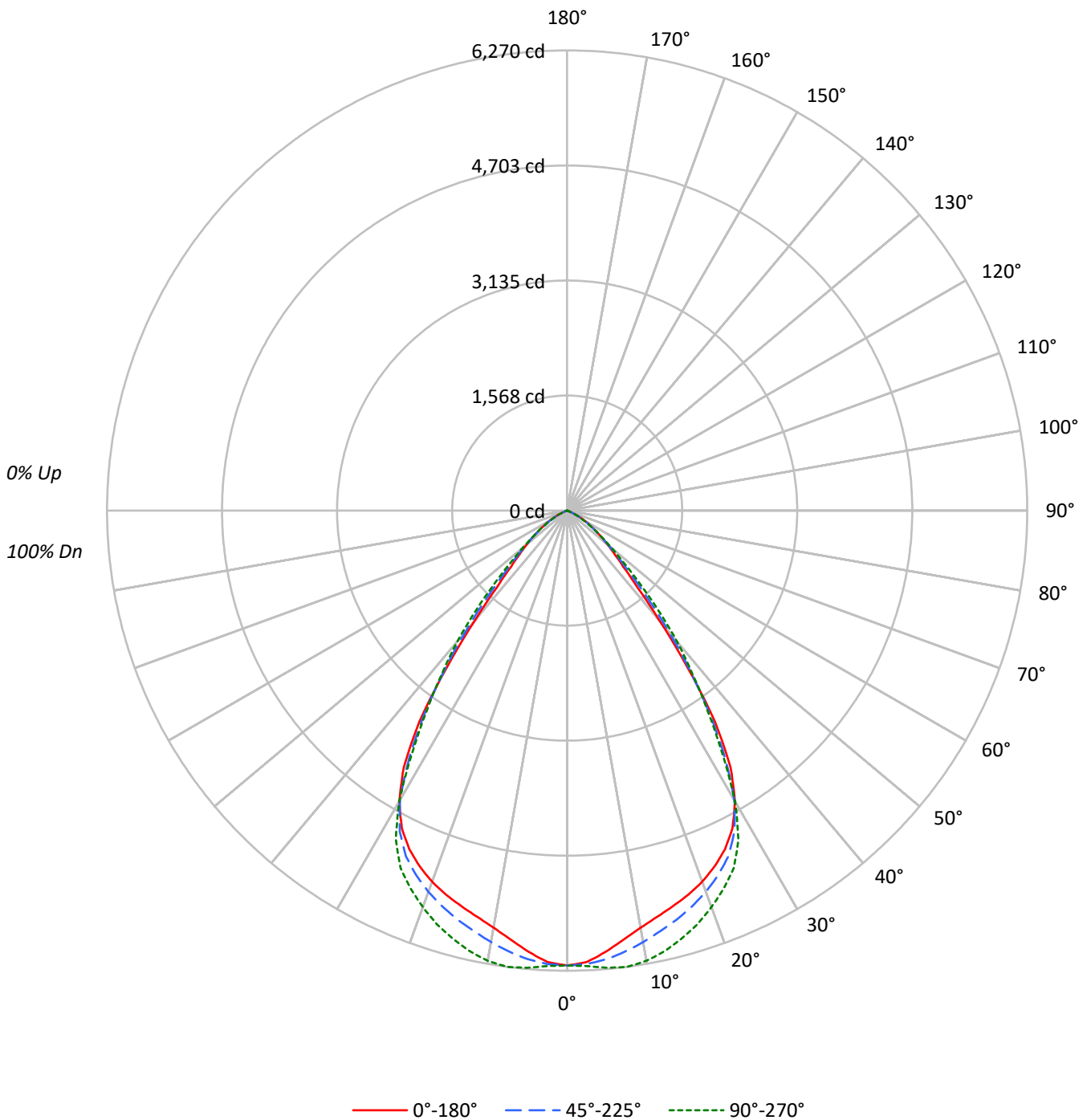
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84					84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	191133	191133	191133
5°	186802	189953	193575
10°	180620	186926	195068
15°	178066	184151	192691
20°	176566	181400	188688
25°	173159	176844	182778
30°	162780	162164	162933
35°	132259	127817	125860
40°	78519	86542	93735
45°	46993	52898	60080
50°	34238	35121	37721
55°	24806	23929	24456
60°	16830	15566	14962
65°	8457	7822	7428
70°	2344	2047	1857
75°	905	643	643
80°	391	391	195
85°	389	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	581.1	7.1
10°-20°	1632.0	19.8
20°-30°	2372.0	28.9
30°-40°	2097.7	25.5
40°-50°	997.9	12.1
50°-60°	415.7	5.1
60°-70°	116.1	1.4
70°-80°	8.8	0.1
80°-90°	0.7	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4585.2	55.8
0°-40°	6682.9	81.3
0°-60°	8096.4	98.5
0°-90°	8222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8222.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6198	6198	6198	6198	6198	
5°	6035	6065	6137	6218	6254	567
15°	5578	5629	5768	5944	6036	1575
25°	5089	5112	5198	5312	5372	2326
35°	3513	3464	3395	3343	3343	2103
45°	1078	1116	1213	1326	1378	897
55°	461	456	445	445	455	420
65°	116	114	107	103	102	126
75°	8	6	5	5	5	10
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6198.3	6198.3	6198.3	6198.3	6198.3
2.5°	6157.2	6162.6	6183.2	6202.7	6211.3
5°	6034.8	6065.1	6136.6	6217.8	6253.6
7.5°	5895.1	5940.6	6060.8	6203.8	6269.8
10°	5768.4	5825.8	5969.8	6146.4	6229.8
12.5°	5668.7	5721.8	5869.1	6053.2	6147.4
15°	5577.8	5628.7	5768.4	5943.8	6035.9
17.5°	5486.8	5535.5	5655.7	5819.3	5908.1
20°	5380.6	5419.6	5527.9	5672.0	5750.0
22.5°	5248.5	5284.2	5375.2	5503.0	5573.4
25°	5089.3	5112.0	5197.6	5312.4	5372.0
27.5°	4878.1	4883.5	4935.5	5010.2	5054.6
30°	4571.6	4568.3	4554.3	4551.0	4575.9
32.5°	4142.7	4095.0	4012.7	3973.7	3943.4
35°	3513.4	3463.6	3395.4	3343.4	3343.4
37.5°	2686.0	2729.3	2756.4	2788.9	2805.1
40°	1950.6	2014.5	2149.9	2290.7	2328.6
42.5°	1417.7	1477.3	1623.5	1780.5	1826.0
45°	1077.6	1115.6	1213.0	1325.7	1377.7
47.5°	870.8	881.6	930.3	997.5	1022.4
50°	713.7	717.0	732.1	766.8	786.3
52.5°	577.3	575.1	579.4	589.2	597.8
55°	461.4	456.0	445.1	445.1	454.9
57.5°	356.3	348.7	336.8	331.4	328.2
60°	272.9	265.3	252.4	243.7	242.6
62.5°	196.0	189.5	176.5	169.0	166.8
65°	115.9	113.7	107.2	102.9	101.8
67.5°	54.2	52.0	46.6	44.4	43.3
70°	26.0	24.9	22.7	21.7	20.6
72.5°	13.0	13.0	10.8	10.8	10.8
75°	7.6	6.5	5.4	5.4	5.4
77.5°	4.3	3.2	3.2	3.2	3.2
80°	2.2	2.2	2.2	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)